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The Delphion Integrated ViewGet Now: ☒ PDF | [File History](#) | [Other choices](#)Tools: Add to Work File: [Create new Work File](#) View: INPADOC | Jump to: Go to: [Derwent](#)Title: **JP63004046A2: HIGH-TENSILE STEEL FOR OIL WELL EXCELLENT IN RESISTANCE TO SULFIDE CRACKING**Derwent Title: High strength steel for oil well - comprises carbon, silicon, manganese, chromium, molybdenum, aluminium, boron, zirconium and/or hafnium, niobium, etc. [[Derwent Record](#)]

Country: JP Japan

Kind: A DOC. LAID OPEN TO PUBL. INSPEC. [PUBLISHED FROM 1971 ON] ¹Inventor: KANEKO TERUO;
IKEDA AKIO;Assignee: SUMITOMO METAL IND LTD
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Published / Filed: 1988-01-09 / 1986-06-20

Application Number: JP1986000145913

IPC Code: Advanced: [C22C 38/00](#); [C22C 38/54](#);
Core: more...
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Priority Number: 1986-06-20 JP1986000145913

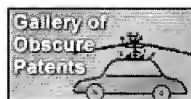
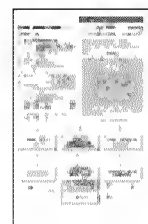
Abstract: PURPOSE: To obtain the titled steel free from deterioration due to plastic deformation, by forming a steel stock in which kinds and additive quantities of alloy components are properly regulated and respective contents of impurities are limited into a structure composed principally of tempered martensite which is formerly fine-grained austenite.

CONSTITUTION: The steel stock which consists of, by weight, 0.15W0.45% C, 0.1W0.8% Si, 0.2W0.8% Mn, 0.2W<1.0% Cr, 0.05W0.8% Mo, 0.005W0.060% Al, 0.0001W0.0030% B, 0.01W0.15% Zr and/or 0.001W0.150% Hf, one or more kinds among 0.01W0.15% Nb, 0.01W0.15% V, and 0.01W0.15% Ti, and the balance essentially Fe and in which quantities of P, S, Cu, Ni, N, and O among inevitable impurities are limited to ≤0.01%, ≤0.005%, ≤0.15%, ≤0.05%, ≤0.0150%, and ≤0.0050%, respectively, is subjected to hardening at a relatively low heating temp. to undergo formation of austenite grains of ≤1.6μm average grain size. Subsequently, a structure composed principally of tempered martensite which is formerly the above austenite is formed, so that high-tensile steel for oil well excellent in resistance to sulfide cracking can be obtained.

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Family: None

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